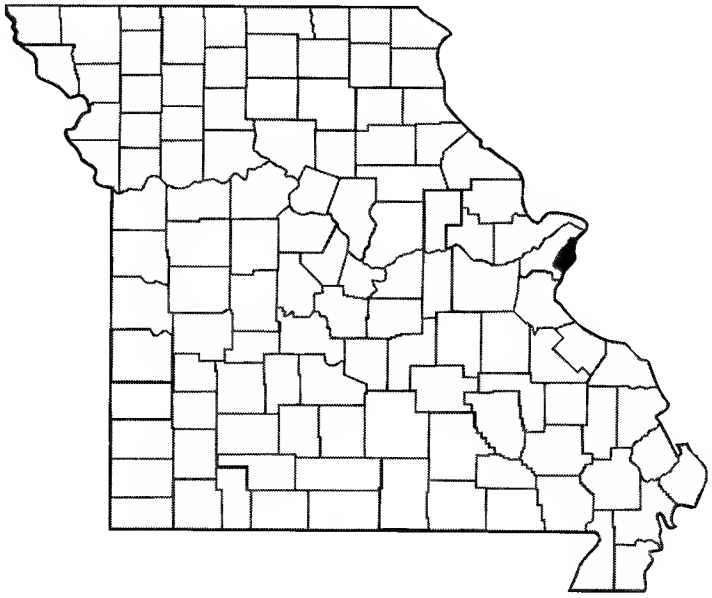
PRE-CERCLIS SITE SCREENING REPORT

American Lead Products Co. Site
St. Louis, Missouri

August 31, 2006



Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

I. SITE NAME AND LOCATION

Name: American Lead Products Company		**Alias:**	
Address or other Location Identifier: 2939 Chouteau			
City: St. Louis	**County:** St. Louis	**State:** MO	**Zip:** 63103

Directions to Site:

From the east, take Interstate 64 west to Exit 38B, Market St. Travel west (left) on Market St. approximately .25 mile to South Compton Avenue. Turn left (south) on South Compton Avenue and continue approximately .5 mile to Chouteau Avenue. Make a left (east) on Chouteau Avenue and arrive at site on the right in .25 mile.

From the west, take Interstate 64 east to Exit 36D, Chouteau Avenue. Continue on Chouteau Avenue for approximately 1 mile to arrive at the site on the right.

Map Attached: X

II. SITE REFERRAL INFORMATION

Referred By: Citizen petition to the Environmental Protection Agency (EPA), Region 7	**Date of Referral:** 11/13/03
Reason for Referral (if applicable): Concern regarding lead contamination in surface soils near former smelters.	
Mailing Address:	

City:	**State:**	**Zip:**
Telephone:	**Fax:**	

III. SITE INFORMATION

Type of Facility: Former lead or zinc smelter or processing facility	**Type of Ownership:**
Owner Name: Unknown	
Mailing Address:	

City:	**State:**	**Zip:**
Telephone:	**Fax:**	
Operator Name (if different from owner):		
Mailing Address:		
City:	**State:**	**Zip:**
Telephone:	**Fax:**	
Current Site Status:	**Years of Operation:**	

Operational History:

In November of 2003, a citizen petitioned the EPA to determine the potential for soil contamination resulting from operation of former lead smelters within the City of St. Louis (Reference 5). It is common to find lead contamination in soils, groundwater, and surface water surrounding lead mines, mills and smelter sites. The contamination around smelters comes from dust fallout from the furnace smokestacks, the production process, and the slag piles. These operations have the potential to produce waste containing high levels of lead and other metals which may have been deposited in surface soils both on and surrounding the sites.

(Revised by Missouri DNR 12/6/96)

5. Is there a potential for other federal or state response mechanisms? Yes ___ No X

If so, identify the appropriate program:

___ RCRA ___ NRC ___ FIFRA ___ UST

___ State VCP ___ Other State Deferral ___ Other Federal (_____)

Explain:

V. PATHWAY EVALUATION

1. Source and Waste Characteristics

Source Types and Locations: The source is not known, but may be leaded gasoline.

Size of Sources: The source size is limited to an area near a major roadway.

Waste Types and Quantities: The quantity of contaminated soil is unknown at this time.

Hazardous Substances Present: Lead

2. Groundwater Use and Characteristics Within 4 Miles

General Hydrology:
Unknown

Are Karst Features Present on or Near Site: Unknown

Depth to Shallowest Groundwater: Unknown

Groundwater Wells Within 4 Miles: Unknown

Private Wells:

Municipal Wells:

Industrial/Agricultural Wells:

Locations and Populations Served (if known):

Distance to Nearest Drinking Water Well: Unkown

3. Surface Water Use and Characteristics

Is Site in a Flood Plain: Unknown **If Yes,** ___ **10 year** ___ **100 year** ___ **500 year**

Distance to Nearest Surface Water: Unknown
(If within 2 miles, fill out surface water pathway)

List Surface Water Bodies Within 15 Downstream Miles:

Drinking Water Intakes Within 15 Downstream Miles: Unknown

Locations and Populations Served (if known):

Fisheries, Sensitive Environments or Wetlands Within 15 Downstream Miles: Unknown

Significant Features (if known or applicable):

4. Soil and Air Exposure Characteristics

Number of People Living Within 200 Feet of Site: Unknown, heavy urban area.

Number of Schools or Daycares Within 200 Feet of Site: Unknown

General Population Within 4 Miles (rural, small city, heavy urban area, etc...): Heavy urban

Number of Workers On-Site:

Any terrestrial sensitive environments and/or wetlands present on-site? **Yes** ___ **No** ___

Is site access restricted? **Yes** ___ **No** X

VI. SUPERFUND SITE SCREENING CRITERIA [40 CFR 300.410(e)]

1. Does the quantity or concentration of hazardous substances warrant response? **Yes** ___ **No** X

Explain:

A total of twenty-two soil samples were collected from seven sampling locations within a one mile radius of this site.

Lead concentrations for sampling locations within one mile of the site ranged from 42 ppm to 298 ppm. No samples exceeded the EPA PRG of 400 ppm lead. Of the seven locations sampled, one location near a busy roadway contained lead in the surface soils above three times the background concentration established for this site.

2. Has a PRP been identified? **Yes** ___ **No** X

Explain:

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

3. Is there an actual or potential exposure to hazardous substances, pollutants or contaminants? Yes X No ___

Explain:
Exposure to contaminated soil is possible through contact with the soil. However, the contaminated soil is below the EPA PRG residential screening value of 400 ppm lead. This soil is also covered with well-established vegetation and is limited to one small area near a busy roadway.

4. Is there an actual or a potential threat for contamination of drinking water supplies? Yes ___ No X

Explain:
At this time, a threat to drinking water supplies is not expected. Groundwater contamination is unlikely because the contamination has been deposited into the surface soils and is not believed to be at depth.

5. Are there hazardous substances, pollutants or contaminants in drums, barrels or bulk storage containers? Yes ___ No X

Explain:
No drums, barrels, or bulk storage containers were noted in the residential areas sampled.

6. Are there high levels of hazardous substances, pollutants or contaminants in surface soils? Yes ___ No X

Explain:
Soil on-site contained levels of lead below the EPA PRG screening level of 400ppm lead for residential settings.

("High levels" may be determined by streamlined risk assessments, health consultations, state or federal soil screening criteria, and/or Superfund program policies or directives.)

7. Are there conditions on site which may be susceptible to impact from adverse weather conditions? Yes ___ No X

Explain: The vegetation is well established in the location with contaminated soils. The migration of lead within the surface soils during adverse weather conditions is unlikely.

8. Is there a threat of fire or explosion? Yes ___ No X

Explain: Lead contaminated soil is not flammable or explosive.

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

9. Are there other situations or factors which warrant further Superfund response? **Yes ___** **No X**

Explain:

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

VII. SUPERFUND SITE SCREENING FINDINGS AND RECOMMENDATIONS

SITE SCREENING FINDINGS

Answer the following questions as support for the site recommendation.

Yes	No	Condition or Factor	Yes	No	Condition or Factor
X		**Is there a release or threat of release?**	X		**Is there a direct soil exposure pathway threat?**
X		**Is the source a facility or vessel?**		X	**Are there high levels of contaminants in surface soils?**
X		**Does the release involve a hazardous substance, pollutant, or contaminant?**		X	**Is there an air pathway threat?**
	X	**Is the site subject to response limitations?**		X	**Is there a threat of fire or explosion?**
	X	**Does the quantity or concentration of hazardous substances warrant response?**		X	**Are there drums, barrels, or bulk storage containers present?**
X		**Are there actual or potential exposure threats?**		X	**Is the site susceptible to adverse weather conditions?**
	X	**Is there an actual or a potential threat for contamination of drinking water supplies?**		X	**Is there a willing/capable PRP response?**
	X	**Is there a surface water pathway threat?**		X	**Can the site be referred to another program?**

SITE SCREENING RECOMMENDATIONS

X	**Superfund CERCLIS Entry Not Warranted** **No Further Superfund Response Action Required**
	Superfund CERCLIS Entry Warranted **Not Recommended For CERCLIS Entry At This Time – Other Response Action Planned**
	Superfund CERCLIS Entry Warranted **Recommended For CERCLIS Entry – Additional Integrated Assessment Recommended**
	Superfund CERCLIS Entry Warranted **Recommended For CERCLIS Entry – Removal Action Recommended** *(Complete A Removal Evaluation Form)* **___ Emergency ___ Time-Critical ___ Non-Time-Critical**

Comments:

The American Lead Products Company Site is not recommended for entry into CERCLIS at this time. Sampling documented that lead was present below the EPA PRG residential screening levels in surface soils within one mile of the site. Although the concentrations of lead in one sample exceed three times the background concentration, this sample was located in a small area near a roadway. There is no evidence of wide spread contamination due to smelting activities in the area. The source of this contamination is likely attributable to former leaded gasoline use.

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

VIII. ADDITIONAL INFORMATION OR COMMENTS

PREPARED BY:
NAME: Greg Bach **SIGNATURE:** _____ **DATE:** _____

REVIEWED BY:
NAME: _____ **SIGNATURE:** _____ **DATE:** _____

APPROVED BY:
NAME: _____ **SIGNATURE:** _____ **DATE:** _____

(Revised by Missouri DNR 12/6/96)

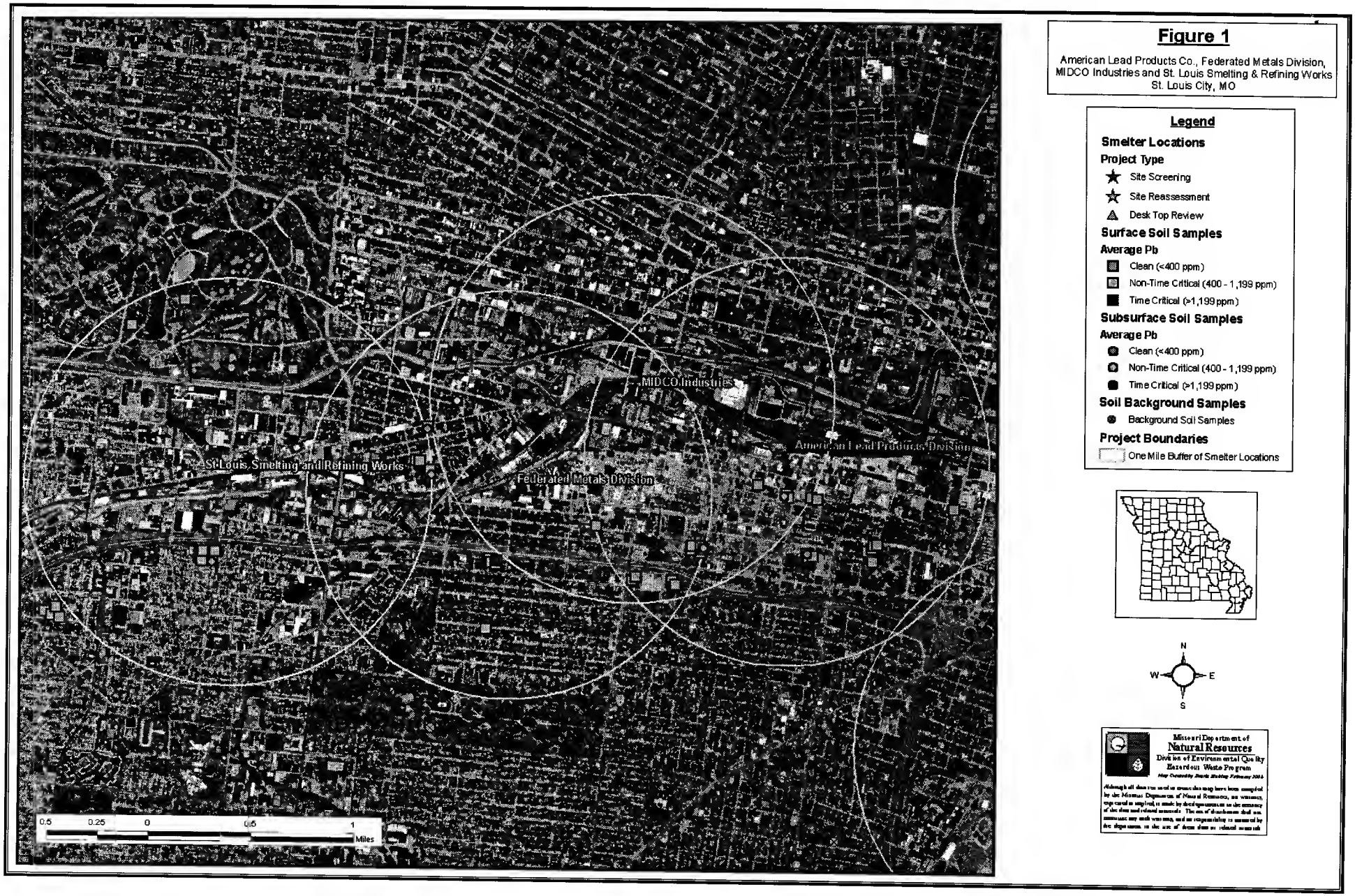


Figure 1

American Lead Products Co., Federated Metals Division, MIDCO Industries and St. Louis Smelting & Refining Works
St. Louis City, MO

Legend

Smelter Locations

Project Type

- Site Screening
- Site Reassessment
- Desk Top Review

Surface Soil Samples

Average Pb

- Clean (<400 ppm)
- Non-Time Critical (400 - 1,199 ppm)
- Time Critical (>1,199 ppm)

Subsurface Soil Samples

Average Pb

- Clean (<400 ppm)
- Non-Time Critical (400 - 1,199 ppm)
- Time Critical (>1,199 ppm)

Soil Background Samples

- Background Soil Samples

Project Boundaries

- One Mile Buffer of Smelter Locations

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TABLE 2. XRF RESULTS FOR SOIL SAMPLES COLLECTED JANUARY 25 AND 26, 2005 AMERICAN LEAD PRODUCTS CO., ST. LOUIS, MISSOURI

- All values listed in parts per million (mg/kg)
- NL denotes benchmark value not listed in reference source
- Sample results in bold are significantly[1] above background concentrations

Location	XRF Sample	Sample ID	Sample Type*	Pb Average
1746 Chouteau	HWP050024	AMLD01V01SS01	SS	139.2
2706 Hickory	HWP050025	AMLD02V01SS02	SS	163.9
	HWP050026	AMLD02V02SS03	SS	137.9
Buder Park	HWP050027	AMLD03P01SS04	SS	68.2
	HWP050029	AMLD03P02SB01	SB	110.4
	HWP050028	AMLD03P02SS05	SS	105.7
3008 Hickory	HWP050030	AMLD04V01SS06	SS	90.8
Eads Park	HWP050032	AMLD05P01SB02	SB	56.5
	HWP050031	AMLD05P01SS07	SS	42.6
	HWP050033	AMLD05P02SS08	SS	49.6
	HWP050034	AMLD05P03SS09	SS	41.5
Lafayette Park	HWP050035	AMLD06P01SS10	SS	169.4
	HWP050036	AMLD06P02SS11	SS	126.8
	HWP050037	AMLD06P03SS12	SS	158.2
	HWP050038	AMLD06P04SS13	SS	126.8
	HWP050039	AMLD06P05SS14	SS	**298.1**
Terry Park	HWP050042	AMLD07P01SS15	SS	94.4
	HWP050043	AMLD07P02SS16	SS	84.2
	HWP050045	AMLD07P03SB03	SB	100.5
	HWP050044	AMLD07P03SS17	SS	104.7
	HWP050046	AMLD07P04SS18	SS	166.7
	HWP050047	AMLD07P05SS19	SS	101.8
		Average Background SS and SB		**88.2 and 41.0**
		SCDM[2]		**NL**
		CALM[3]		**260**
		EPA PRG[4]		**400**

[1] Above the PQL when background concentration is < PQL, or three times the background concentration when contaminant is detected in background sample.

[2] SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway.

[3] CALM - Cleanup Levels for Missouri, September 2001, residential use.

[4] EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential use.

* SB - subsurface soil sample collected from 3-6 inches in depth.
SS - surface soil sample collected from 0-2 inches in depth.

Photograph 1
American Lead Products Co. Site, St. Louis, Missouri. Photo taken on November 19, 2003 by Michael D. Giovanini, DEQ, HWP, Superfund

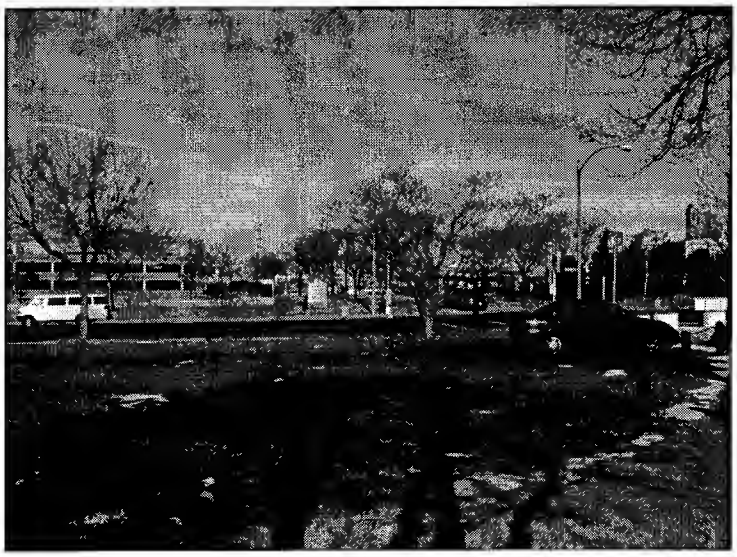
View of American Lead Products Co. area, Ewing & Choateau Streets. View looking southeast.

Photograph 2
American Lead Products Co. Site, St. Louis, Missouri. Photo taken on November 19, 2003 by Michael D. Giovanini, DEQ, HWP, Superfund

View of neighboring company building located in American Lead Products Co. area, Ewing, Montrose & Choateau Streets. View looking south

Photograph 3
American Lead Products Co. Site, St. Louis, Missouri. Photo taken on November 19, 2003 by Michael D. Giovanini, DEQ, HWP, Superfund

View of neighboring property located in American Lead Products Co. area, Ewing, Montrose & Choateau Streets. View looking southwest.



Photograph 4
American Lead Products Co. Site,
St. Louis, Missouri. Photo taken on January 25, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund.

1746 Choutau, view of sampling location 1.
View is facing north towards Choteau Road.

Photograph 5
American Lead Products Co. Site,
St. Louis, Missouri. Photo taken on January 25, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund.

2706 Hickory, view of sampling location 2.
View is facing south from Hickory Road.

Photograph 6
American Lead Products Co. Site,
St. Louis, Missouri. Photo taken on January 25, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

Buder Park, view of sampling locations 3.
View is facing northeast from Rutger Street.

Photograph 7
American Lead Products Co. Site,
St. Louis, Missouri. Photo taken on January 25, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

Buder Park, view of sampling location 3. View is facing east.

Photograph 8
American Lead Products Co. Site,
St. Louis, Missouri. Photo taken on January 25, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

Buder Park, view of sampling location 3. View is facing east.

Photograph 9
American Lead Products Co. Site,
St. Louis, Missouri. Photo taken on January 25, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

3008 Hickory Street, view of sampling location 4. View is facing south from Hickory Street.

Photograph 16
American Lead Products Co. Site, St. Louis, Missouri. Photo taken on January 26, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

Terry Park, view of sampling location 7. View is facing northwest from Eads Avenue.

Photograph 24
American Lead Products Co. Site, St. Louis, Missouri. Photo taken on January 26, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

Terry Park, view of sampling location 7. View is facing west from Henrietta Street.

Photograph 27
American Lead Products Co. Site, St. Louis, Missouri. Photo taken on January 26, 2005 by Rebecca Wells-Albers, DEQ, HWP, Superfund

Terry Park, view of sampling location 7. View is facing west from Henrietta Street.